

# HD SERIES

## DOUBLE ACTING CYLINDERS

- Internal plunger threads
- Plunger wiper reduces contamination and extends the cylinder-life
- High strength steel construction manufactured from solid bar
- High flow 3/8"-18NPTF ball couplers with dust caps included
- Collar thread protectors
- One piece high grade alloy bearing for side load protection and long life
- Polyurethane cup seal helps to provide an optimal performance
- Industrial hard chrome plated ram prevents rust and corrosion
- Maximum working pressure is 700 bar

Item	Stroke (mm)	Min. height A (mm)	Outside Ø D (mm)	Push oil capacity (cc)	Pull oil capacity (cc)	Push effective area (cm <sup>2</sup> )	Pull effective area (cm <sup>2</sup> )	Weight (kg)
<b>Push capacity: 10 tn (100 kN), Pull capacity: 3.8 tn (33 kN)</b>								
HD1010	255	409	73	367	122	14,5	4,8	12,1
HD1012	304	458	73	438	146	14,5	4,8	13,6
<b>Push capacity: 30 tn (288 kN), Pull capacity: 16.2 tn (141 kN)</b>								
HD3008	207	389	101	867	426	41,9	20,6	19,5
HD3014	368	550	101	1 542	758	41,9	20,6	27,5
<b>Push capacity: 50 tn (486 kN), Pull capacity: 16.2 tn (141 kN) (2 handles included)</b>								
HD5506	157	331	127	1 113	323	70,9	20,6	32,0
HD5513	335	509	127	2 375	690	70,9	20,6	47,2
HD5520	511	733	127	3 623	1 053	70,9	20,6	66,3
<b>Push capacity: 75 tn (713 kN), Pull capacity: 25.9 tn (227 kN) (2 handles included)</b>								
HD7506	155	348	146	1 608	511	103,8	33	42,5
HD7513	333	526	146	3 457	1 099	103,8	33	62,1
<b>Push capacity: 100 tn (911 kN), Pull capacity: 48.6 tn (424 kN) (2 handles included)</b>								
HD10006	167	357	177	2 216	1 032	132,7	61,8	62,9
HD10010	257	449	177	3 413	1 591	132,7	61,8	76,7
HD10013	333	524	177	4 419	2 058	132,7	61,8	87,8
HD10018	461	687	177	6 117	2 849	132,7	61,8	112,6
<b>Push capacity: 150 tn (1 348 kN), Pull capacity: 66 tn (634 kN) (2 handles included)</b>								
HD15006	156	386	203	3 065	1 439	196,3	92,4	78,4
HD15013	334	564	203	6 546	3 082	196,3	92,4	111,3



HD10018



HD3008



HD10006

## HD SERIES TECHNICAL SPECIFICATIONS

Item	Cylinder bore Ø C (mm)	Plunger Ø E (mm)	Saddle Ø F (mm)	Base to inlet port G (mm)	Collar thread L	Collar thread length M (mm)	Plunger internal thread J	Plunger thread length K (mm)	Base mounting hole		
									Bolt circle X (mm)	Thread Y	Thread depth Z (mm)
HD1010	43	35	35	36	2 1/4"-14UN	26	1"-8UNC	25	33	5/16"-18UNC	15
HD1012	43	35	35	36	2 1/4"-14UN	26	1"-8UNC	25	33	5/16"-18UNC	15
HD3008	73	54	50	42	3 5/16"-12UN	49	1 1/2"-16UN	25	56	1/2"-13UNC	18
HD3014	73	54	50	42	3 5/16"-12UN	49	1 1/2"-16UN	25	56	1/2"-13UNC	18
HD5506	95	80	70	29	5"-12UN	44	1"-12UNF	25	95	1/2"-13UNC	18
HD5513	95	80	70	29	5"-12UN	44	1"-12UNF	25	95	1/2"-13UNC	18
HD5520	95	80	70	29	5"-12UN	44	1"-12UNF	25	95	1/2"-13UNC	18
HD7506	115	95	70	30	5 3/4"-12UN	38	1"-12UNF	38	102	3/4"-10UNC	23
HD7513	115	95	70	30	5 3/4"-12UN	38	1"-12UNF	38	102	3/4"-10UNC	23
HD10006	130	95	75	31	6 7/8"-12N	51	1 3/4"-12UN	35	139	3/4"-10UNC	25
HD10010	130	95	75	31	6 7/8"-12N	51	1 3/4"-12UN	38	139	3/4"-10UNC	25
HD10013	130	95	75	31	6 7/8"-12UN	51	1 3/4"-12UN	35	139	3/4"-10UNC	25
HD10018	130	95	75	38	6 7/8"-12UN	51	1 3/4"-12UN	35	139	3/4"-10UNC	25
HD15006	158	115	115	50	8"-12UN	60	3 3/8"-16UN	36	159	3/4"-16UNF	25
HD15013	158	115	115	50	8"-12UN	60	3 3/8"-16UN	36	159	3/4"-16UNF	25

